

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1742

Applicant: ANDO ET AL.  
Serial No.: 09/575348  
Filed: MAY 19, 2000  
Confirmation No.: 1005



Examiner: S. IP  
Group Art Unit: 1742  
Docket: 12052.33US01

Title: BILLET FOR COLD FORGING, METHOD OF MANUFACTURING BILLET FOR COLD FORGING, METHOD OF CONTINUOUSLY COLD-FORGING BILLET, METHOD OF COLD-FORGING

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on July 22, 2002

By: *[Signature]*

Name: *[Signature]*

Commissioner for Patents  
Washington, D.C. 20231

Sir:

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- ☒ Return postcard
- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Other: Replacement Page

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

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USA  
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By: *[Signature]*

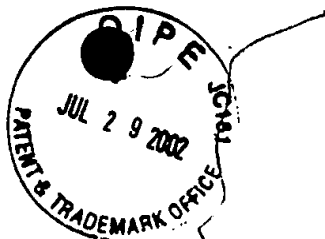
Name: Curtis B. Hamre  
Reg. No.: 29,165  
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S/N 09/575,348



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	ANDO ET AL.	Examiner:	S. IP
Serial No.:	09/575,348	Group Art Unit:	1742
Filed:	MAY 19, 2000	Docket No.:	12052.33US01
Title:	BILLET FOR COLD FORGING, METHOD OF MANUFACTURING BILLET FOR COLD FORGING, METHOD OF CONTINUOUSLY COLD FORGING BILLET, METHOD OF COLD FORGING CRANKSHAFT, METHOD OF COLD FORGING DISK SHAPED PART WITH SHAFT, AND COLD FORGING DIE APPARATUS		

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REPLACEMENT PAGE

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Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

An Amendment was filed with respect to the above referenced patent application on May 17, 2002. An inventor's Declaration accompanied the Amendment. In an Advisory Action dated June 19, 2002, Examiner expressed doubt concerning the unit of measurement in Table 2 for Mean Carbide Particle Diameter. Examiner correctly observed that the unit m is an impossible dimension for the carbide particles.

The correct unit of measurement is μm. The table was prepared from data supplied by the Declarant using Microsoft Word software. The symbol μ was entered from the Word character set to prepare the Table. However, the symbol did not appear when the Table was printed. The printing error was inadvertent and not discovered before submitting the Declaration. Further, the same error occurs in Table 2 with respect to units for Number per unit area. The correct unit of measurement is μm<sup>2</sup>. Please note the space before m in each column where the symbol μ should have appeared.

Examiner is respectfully requested to enter the enclosed replacement page for the Tables accompanying the Declaration. The tables in the replacement page are the same as originally filed except for the correction to units in Table 2.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicants' primary attorney-of record, Curtis B. Hamre (Reg. No. 29,165), at (612) 336.4722.



Dated: July 22, 2002

Respectfully submitted,

MERCHANT & GOULD P.C.  
P.O. Box 2903  
Minneapolis, Minnesota 55402-0903  
(612) 332-5300

By Curtis B. Hamre

Curtis B. Hamre  
Reg. No. 29,165



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TABLE 1  
COMPOSITION OF TEST PIECES

wt. %	TP-1	TP-2	TP-3
C	0.5	0.48	0.48
Si	0.18	0.09	0.07
Mn	0.67	0.3	0.6
P	0.018	0.012	0.012
S	0.017	0.003	0.013
Cu	0.09	0.09	0.02
Ni	0.04	0.16	0.03
Cr	0.16	0.07	0.12

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TABLE 2  
MEASUREMENT OF SPHERODIZING RATIO

	Hardness (HRB)	Number per unit area ( $\mu\text{m}^2$ )	Mean Carbide of Particle Diameter ( $\mu\text{m}$ )	Mean Aspect ratio (%)
TP-1	76.7	0.2141	1.120	350
TP-2	69.4	0.1862	1.084	506
TP-3	76.3	0.2780	0.913	282